AJACS本郷5

Nucleic Acids Research Web Server Issue 2009

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イントロがわりに↓の話を

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EDITORIAL

NUCLEIC ACIDS RESEARCH ANNUAL WEB SERVER ISSUE IN 2009

The 2009 Web Server Issue of *Nucleic Acids Research* is the seventh in a series of annual special issues dedicated to web-based software resources for analysis and visualization of molecular biology data. It is freely available online under *NAR*'s open access policy. The present issue reports on 112 web servers.

TOPICS

This year's special emphasis was on metagenomics, molecular network and pathway analysis and biological text mining. Fourteen papers deal with these topics. Another 14 papers involve web services, biocomputing workbenches or bioinformatics tools for such tasks as clustering, genome browsing, deep sequencing and homology search. By far, the largest number of papers covers DNA and RNA (17) and proteins (36). The remainder cover a variety of topics, including gene annotation, gene set enrichment analysis, phylogeny, microarrays and SNPs.

Also included in the present issue is the Bioinformatics Links Directory 2009 update by Michelle Brazas, Francis Ouellette and their colleagues at the Ontario Institute for Cancer Research. The directory, at http://bioinformatics.ca/links_directory, is a searchable compilation of web servers published in this and previous Web Server issues together with other useful tools, databases and resources for life sciences research.

INSTRUCTIONS FOR SUBMISSIONS

To streamline the review process, authors are required to send a one-page summary of their web server to the editor, Dr Gary Benson (narwbsrv@bu.edu), for pre-approval prior to manuscript submission. For the 2009 issue, 282 summaries were submitted and 141, exactly 50%, were approved for manuscript submission. Of those approved, 112, or nearly 80%, were accepted for publication.

Review of a summary in
criteria for pre-approval ar
and a well-designed, well-in
publication in the Web Server issue for web servers, or essentially similar web servers, that have been the subject of a previous publication, including publication in journals other than *NAR*.

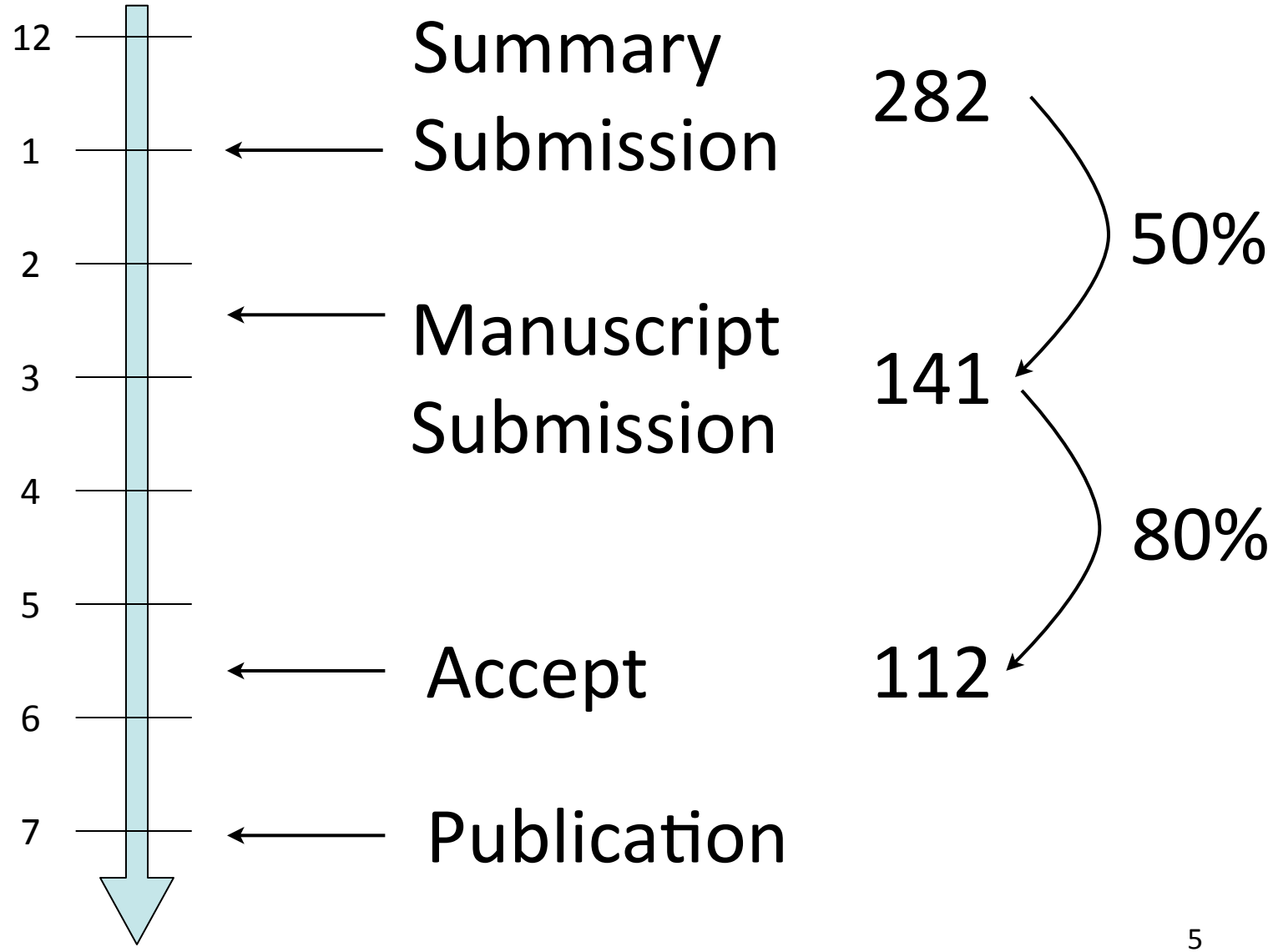
With respect to the web site, the following are guidelines for approval. It should have an easy-to-find submission page with a simple mechanism for loading test data and setting test parameters. The preferred method is one-click loading

http://nar.oxfordjournals.org/cgi/content/full/37/suppl_2/W1

7th

112

web servers


12
1
2
3
4
5
6
7
Summary
Submission
Manuscript
Submission
Accept
Publication
282
50%
141
80%
112

This year's special emphasis:

metagenomics

molecular network and pathway analysis

biological text mining

Category:

Metagenomics, molecular network and pathway analysis biological text mining	14
Web Service	14
DNA and RNA	17
Proteins	36

Gene annotation, gene set enrichment analysis,
phylogeny, microarrays, SNPs, ...

http://bioinformatics.ca/links_directory/narweb2009/?show=cat&group_id=11

見るべし

Guidelines for approval (1):

Input:

Easy-to-find submission page
+ simple mechanism for loading test data and setting test parameters

- GenBank の配列を入力する代わりにIDを入れて、
  自動でとってくるなんてのもよい

Output:

Dynamic and rich in detail

あらかじめある表を見せるのはダメ (← dynamic)

根拠情報や詳細情報へのリンクがあるとよい

ユーザーの理解の助けとなるvisualizationは歓迎

Guidelines for approval (2):

(データ量が多くなって) 処理に時間がかかる場合も

結果ファイルをメールで送るとSpamに落ちることも

→ 結果ページへのリンクが

（ブラウザに）表示される方法を推奨

… 処理の状況（処理中、終了 など）が表示されるとなおよし

Guidelines for approval (3):

新規のデータ

→ WS issueでなく Database Issue はどうでしょう

新規の解析手法

→ WS issueでなく regular computational biology paper に

結局...

とりあえずさわれる

ちゃんと動く

研究データを
なんとかしてくれる

2010は...

2010 は…

stand alone (non-web server) program

の section ができる予定

∴ データ量 ↑↑↑ → 処理時間↑↑↑

2010 は…

Stand-alone program のセクションができる予定

Input: 10MB以上

Pratform:

Linux、 Mac、 PC のうち
少なくとも2つで動くこと

Self-installing (’one click’ type) installation

Well-designed GUI.

(command line programs はダメ)

The 2010 issue's special emphasis:

next generation sequencing data analysis

metagenomics

molecular network and pathway analysis

biological text mining

Schedule:

-09.12.31　　One-page Proposal

-10.1.31　　Manuscript

http://www.oxfordjournals.org/our_journals/nar/for_authors/submission_webserver.html
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